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TIT-M-60-080

05 FEB 1960

TO : Chairman, Equipment Board
FROM : Chief, Telecommunications, Training & Techniques Staff, OC
SUBJECT: Procurement of Microwave Equipment

It is requested that the Board allocate funds in the amount of \$125,000 for the procurement and installation of a microwave system for the new CIA Building. Lead time and other factors dictate expeditious action. Attached are two pertinent references.



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Distribution:

- 2 - Chairman, Equipment Board, w/att. a/s
- 1 - Each member of Equipment Board, w/att. a/s

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C O P Y

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TTT-M-60-018
11 January 1960

TO : Chief, Engineering Staff, OC
FROM : Chief, Telecommunications, Training & Techniques Staff, OC
SUBJECT: Microwave System for New CIA Building
REF : ENG M9-1102

1. The proposed microwave system and cost estimates contained in the reference have been studied and a review of the requirements indicates that a considerable reduction can be effected.

2. Listed below are the requirements that must be met as discussed with members of your Staff on 6 January 1960:

a. Microwave systems consisting of twelve (12) voice channels from the new CIA Headquarters building to the relay point

b. Nine (9) of these voice channels on the microwave from tower [redacted] microwave tower [redacted]. Two (2) of these channels to be used with appropriate tone multiplexing equipment to provide eight (8) full duplex teletype channels on each of the two channels. The other seven channels to be maintained as full voice channels.

c. Three (3) of the twelve (12) microwave channels to be relayed from [redacted] building to provide: (1) two full duplex telephone circuits and (2) eight full duplex 100 W/M teletype channels. This requirement remains essentially the same as that proposed in your letter of 15 June 1959.

3. It would be appreciated if you would have new cost estimates prepared for the equipment necessary to meet the requirement. As soon as your cost estimates are received, we will attempt to assure that funds are available so that equipment procurement can proceed without delay.

/s/

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C O P Y

ENG M60-071
29 January 1960

TO : Chief, Telecommunications, Training & Techniques Staff, OC

FROM : Chief, Engineering Staff, OC

SUBJECT: Preliminary Cost Estimates for New Building Microwave Systems

REF : TTT-M-60-018

1. The preliminary cost estimate for the proposed microwave system between the new CIA Building, [REDACTED] is tabulated below.

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2. The equipment listed will fulfill the system requirements outlined in the reference.

<u>ITEM NO.</u>	<u>RF EQUIPMENT DESCRIPTION</u>	<u>QTY.</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
1.	Frequency diversity terminals	4	\$ 7,754.	\$31,016.
2.	Frequency diversity repeater	1	15,236.	15,236.
3.	Master Alarm receiver	1	761.	761.
4.	Video decoupling units	4	529.	2,116.
5.	Alarm transmit	6	287.	1,722.
6.	6 ft. antenna	4	638.	2,552.
7.	4 ft. antenna	2	458.	916.
8.	8 x 12' reflectors	4	724.	2,896.
9.	2KW Sola regulators	6	294.	1,764.
10.	Waveguide			2,000.
11.	Antenna hardware			1,500.
			TOTAL	\$62,479.

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SUBJECT: Preliminary Cost Estimates for New Building

<u>ITEM NO.</u>	<u>MULTIPLEX EQUIPMENT DESCRIPTION</u>	<u>QTY.</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
1.	80" Relay racks	6	\$126.	\$ 756.
2.	Multiplex meter kits	4	35.	140.
3.	Voice terminals with no signalling	6	465..	2,790.
4.	Voice terminals with signalling	18	570.	10,260.
5.	MU150 power supply	4	118.	472.
6.	Dual Channel VFC XMTR	24	400.	9,600.
7.	Dual Channel VFC RX	24	445.	10,680.
8.	7700C power supply	8	125.	<u>1,000.</u>
			TOTAL	\$35,698.
			TOTAL SYSTEMS COST	\$98,177.
			15% CONTINGENCY	<u>14,723.</u>
				\$112,900.

3. In addition to the equipment costs, consideration should be given to the costs involved in making path surveys, site surveys, and installation of the equipment. The manufacturer has quoted a price of approximately \$10,000 for the preceding services. Such a service contract would guarantee us a working system upon completion and, also, would not impose a burden on our own installation personnel. In view of these facts we suggest considering the manufacturer's proposal.

4. If any questions should arise concerning this cost estimate, please contact [REDACTED]

(Signed)

Distribution:

Original & 1 - Addressee

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